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TITLE : POWDERY ADMIXTURE FOR CEMENT

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject admixture excellent in cement-dispersing ability and capable of reducing slump loss and improving initial strengths by comprising a predetermined metal salt of a copolymer of a specific polyalkylene glycol alkenyl ether with maleic anhydride and bringing the admixture to be water soluble.

SOLUTION: This powdery admixture for cement comprises a ≥ 2 valent metal salt preferably selected from Ca, Mg and Al of a copolymer of a polyalkylene glycol alkenyl ether with maleic anhydride, expressed by the formula $R_1O(AO)_2R_2$ [AO is a 2-4C oxyalkylene, preferably oxyethylene; R_1 is a 2-5C alkenyl, preferably vinyl; R_2 is H or a 1-4C alkyl, preferably CH_3 ; (n) is 1-60], consisting of preferably 1-2 molar ratio of a polyalkylene glycol alkenyl ether with 2-1 molar ratio of maleic anhydride, having $3,000-5 \times 10^5$, preferably $3,000-1 \times 10^5$ weight average molecular weight in terms of polyethylene glycol, and is brought to be water soluble. Thus, the powdery admixture can be dry blended with cement and added to cement in the form of an aqueous solution.

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